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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/546,833		04/11/2000	Brian Mitchell Bass	RAL9-00-042	4516
25299	7590	01/09/2004		EXAMINER	
IBM CO	RPORA?	rion	WAXMAN, ANDREW		
PO BOX	12195				
DEPT 9C	CA, BLD	G 002	ART UNIT	PAPER NUMBER	
RESEAR	RESEARCH TRIANGLE PARK, NC 27709			2667	7
				DATE MAILED: 01/09/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/546,833	BASS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Andrew M Waxman	2667					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on <u>06 No</u>	<u>ovember 2003</u> .						
2a) This action is FINAL . 2b) ⊠ This a	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 8-18 is/are allowed. 6) ☐ Claim(s) 1-3,5,6,19 and 20 is/are rejected. 7) ☐ Claim(s) 4 and 7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1, 2, and 5 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, 6, 19, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Tappan (US 6,295,296).

Regarding claims 1, 3, 6, 19, and 20, Tappan discloses a method (FIGs. 4 and 5) including forming, at an ingress processor (PE2), and then decoding at an egress processor, a header (SHIM header) for each frame destined for an egress processor, having data for identifying the beginning of an instruction processing sequence. See col. 1 lines 16 - 21, col. 2 lines 63 - 67, col. 3 lines 3 - 47, and col. 4 lines 53 - 65.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tappan.

Regarding claim 2, Tappan discloses all of the limitations as recited above with respect to claim 1.

Tappan does not disclose the header including control information which distinguishes the frames as being multicast or unicast.

At the time the invention was made it would have been obvious to one of ordinary skill in the art to include control information identifying the frame as multicast or unicast into the invention as disclosed by Tappan. Although Tappan does not expressly state that this information is contained in the header generated at the ingress processor, Tappan discloses forming and then decoding a header (SHIM header) for each frame destined for an egress processor, and further including information identifying the frame as multicast or unicast would clearly provide a way to facilitate the transmission of frames.

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One of ordinary skill in the art would have been motivated to do this in order to clearly identify a multicast or unicast transmission frame improving the efficiency of the system by reducing the improper identification of frames.

Claim Rejections - 35 USC § 103

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tappan in view of Brunner et al. (US 5,982,775), hereinafter referred to as Brunner.

Regarding claim 5, Tappan discloses all of the limitations as recited above with respect to claims 1 and 2.

Tappan does not expressly disclose the egress processor creating multiple frames for multiple ports when the frame header contains multicast data.

Brunner discloses a multicasting, frame forwarding bridge which forwards each frame to multiple ports when a multicast frame is detected. See abstract.

Therefore, at the time the invention was made it would have been obvious to one of ordinary skill in the art to include forwarding multicast frames to multiple ports, as disclosed by Brunner, into the invention as disclosed by Tappan.

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One of ordinary skill in the art would have been motivated to do this in order to facilitate the transmission of multicast data frames by multiple data ports, thereby creating a more efficient transmission system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M Waxman whose telephone number is (703) 305-8086. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Andrew M. Waxman

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